

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004623

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ A61K31/443, 31/575, 31/58, A61P11/00, 11/06//C07D405/06, C07J5/00, 7/00, 17/00, 31/00, 71/00 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ A61K31/00-31/80, A61P1/00-43/00, C07D405/00-405/14, C07J1/00-75/00 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) MEDLINE (STN), EMBASE (STN), BIOSIS (STN), BIOTECHABS (STN), CAPLUS (STN), REGISTRY (STN), WPI (DIALOG), JSTPLUS (JOIS), JMEDPLUS (JOIS)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 96/36624 A1 (Kyowa Hakko Kogyo Co., Ltd.), 21 November, 1996 (21.11.96), Example 140; description; page 1, line 4 to page 3, line 23	15,16 1-14,17,18, 28-31
P,X P,Y	WO 03/066044 A1 (BOEHRINGER INGELHEIM PHARM GMBH & CO., KG), 14 August, 2003 (14.08.03), Example 140; description; page 26, line 26 to page 27, line 2	15,16 1-14,17,18, 28-31
P,X P,Y	WO 2004/005276 A1 (Kyowa Hakko Kogyo Co., Ltd.), 15 January, 2004 (15.01.04)	15,16 1-14,17,18, 28-31
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 17 June, 2004 (17.06.04)		Date of mailing of the international search report 13 July, 2004 (13.07.04)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer
Facsimile No.		Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01/32127 A1 (SMITHKLINE BEECHAM CORP.), 10 May, 2001 (10.05.01), Claims; examples	1-18, 28-31
Y	WO 01/57036 A1 (PFIZER PRODUCTS, INC.), 09 August, 2001 (09.08.01), Claims; page 119, line 18 to page 132, line 13	1-18, 28-31
Y	WO 01/64639 A2 (MERCK FROSST CANADA & CO.), 07 September, 2001 (07.09.01), Claims; page 27, line 14 to page 29, the last line	1-18, 28-31
A	Yuji YOSHIYAMA, "Jikan Chiryo e Mukete", Pharmacia, 1998, 34(6), pages 573 to 578	1-18, 28-31

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Information on patent family members

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WO 96/36624 A1	1996.11.21	AU 9657029 A NO 9700151 A EP 771794 A1 KR 97704724 A AU 705690 B US 2002/0128290 A1 US 6514996 B2 CN 1154697 A US 6716987 B1
WO 03/066044 A1	2003.08.14	DE 10205274 A1 US 2003/0203918 A1 AU 2003205717 A1
WO 2004/005276 A1	2004.01.15	(Family: none)
WO 01/32127 A1	2001.05.10	AU 200113575 A BR 200015270 A NO 200202057 A EP 1225866 A2 SK 200200759 A3 KR 2002057988 A HU 200203152 A2 CN 1387404 A JP 2003-513028 A CZ 200201512 A3 ZA 200203435 A MX 2002004350 A1
WO 01/57036 A1	2001.08.09	AU 200127002 A NO 200203613 A EP 1252158 A1 BR 200107964 A KR 2002072299 A HU 200204262 A2 CN 1404481 A JP 2003-522176 A CZ 200202410 A3 US 2003/0186989 A1 ZA 200206033 A MX 2002007419 A1 SK 200201014 A3 NZ 519547 A
WO 01/64639 A2	2001.09.07	AU 200139051 A US 2002/0068756 A1 US 6436965 B1 EP 1263728 A2 JP 2003-525273 A

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 19-27
because they relate to subject matter not required to be searched by this Authority, namely:
The inventions as set forth in claims 19-27 pertain to methods for treatment of the human body by therapy. (Article 17(2)(a)(i) of the PCT, Rule 39.1(iv) of the Regulations under the PCT)
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

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With respect to claims 1, 3, 5-8, 10, 12-15, 17, and 28-31

The claims include "a steroid agent" as an active ingredient of the medicine. However, no definition is given therein on as to what chemical structure among those having a steroid skeleton may be specifically possessed by the agent. This is not considered to be obvious to persons skilled in the art. Even when the statements in the description are taken into account, the compounds specifically shown are limited to the scope of the compounds enumerated in claim 2. No special statement is given on the other compounds.

In view of this, it is not considered that the description is clear and sufficient in such a degree that the subject matters of those claims can be carried out and that the statements in the claims are supported by the description. Consequently, the claims and the statements in the description do not comply with the requirements in Articles 5 and 6 of the PCT.

Since the description and the claims of this application do not comply with the given requirements, a search for making an international search report was made through prior-art documents in a rational range which had been limited based on the statements in the description.